



# U.S. Department of the Interior • Bureau of Mines

## MINERAL INDUSTRY SURVEYS

810 7th Street, NW

Washington, DC 20241

X=ACTION
CODE:
CH
REC
WRA
ERA
OPS
ADM
RES
DM
ELKO DISTRICT

For Information call:

M. Michael Miller: (202) 501-9409

Facsimile: (202) 501-3751

Kelly Dorney:  
(data): (202) 501-9498MINES-DATA:

Data Line: (202) 501-0373

Answering Machine: (202) 501-0406

MINES FaxBack: (412) 892-4088

Lime, Monthly

### LIME IN OCTOBER 1993

Lime producers, operating 113 plants, sold or used about 1.48 million short tons in October, according to the U.S. Bureau of Mines. This was 1% below the monthly average for the last 12 months. Lime sold by producers was about 1.26 million tons; this was 5% below the monthly average for the last 12 months. Captive lime used by 24 producers was about 222,000 tons, or 32% above the monthly average for the last 12 months.

Lime sold in October for construction uses, including soil stabilization, totaled about 127,000 tons. Sales of refractory dead-burned dolomite were about 19,000 tons. Sales of lime for environmental uses totaled about 213,000 tons. Steel, iron related sales were about 331,000 tons and sales for other chemical and industrial uses totaled about 572,000 tons.

Principal lime producing States in October 1993, in descending order, were Ohio, Alabama, Pennsylvania, Texas, and Michigan. These accounted for 43% of the total output. Kentucky and Illinois were also significant producers, but specific figures were withheld to protect company proprietary data.

September imports, primarily from Canada, were 20,435 tons. September exports to seven countries were 6,516 tons.

BLM LIBRARY



**TABLE 1**  
**LIME SOLD BY PRODUCERS IN THE UNITED STATES, BY USE**

(Short tons unless otherwise noted)

Use	October 1993	September 1993	10 Months 1993 <sup>1</sup>	10 Months 1992 <sup>1</sup>
<b>Quicklime:</b>				
Construction:				
Soil stabilization.....	33,599	<sup>r</sup> 39,595	308,430	222,393
General construction.....	2,583	1,945	46,967	44,601
Total (short tons).....	36,182	<sup>r</sup> 41,540	355,397	266,994
Total (metric tons).....	32,824	<sup>r</sup> 37,684	322,411	242,213
Refractory dolomite.....	18,565	7,621	90,442	78,026
Agricultural <sup>2</sup> .....	--	--	--	1,523
Environmental.....	173,968	<sup>r</sup> 183,236	2,068,995	( <sup>3</sup> )
Steel, iron related.....	328,882	<sup>r</sup> 350,926	2,252,975	( <sup>3</sup> )
Other Chemical and Industrial <sup>4</sup> .....	520,722	<sup>r</sup> 526,561	6,559,562	10,587,034
Total quicklime (short tons).....	1,078,319	<sup>r</sup> 1,109,884	11,327,371	10,933,577
Total quicklime (metric tons).....	978,235	<sup>r</sup> 1,006,870	10,276,021	9,918,777
<b>Hydrate:</b>				
Construction:				
Soil stabilization.....	47,418	<sup>r</sup> 63,672	517,750	469,681
General construction.....	43,561	<sup>r</sup> 45,573	414,525	371,999
Total (short tons).....	90,979	<sup>r</sup> 109,245	932,275	841,680
Total (metric tons).....	82,535	<sup>r</sup> 99,105	845,746	763,559
Agricultural <sup>2</sup> .....	--	--	--	27,998
Environmental.....	38,815	<sup>r</sup> 44,966	487,417	( <sup>3</sup> )
Steel, iron related.....	1,699	<sup>r</sup> 1,534	17,217	( <sup>3</sup> )
Other Chemical and Industrial <sup>4</sup> .....	51,757	<sup>r</sup> 52,208	545,463	1,369,862
Total hydrate (short tons).....	183,250	<sup>r</sup> 207,953	1,982,372	2,239,540
Total hydrate (metric tons).....	166,242	<sup>r</sup> 188,652	1,798,378	2,031,677
Total construction sales.....	127,161	<sup>r</sup> 150,785	1,287,672	1,108,674
Total refractory sales.....	18,565	7,621	90,442	78,026
Total agricultural sales <sup>2</sup> .....	--	--	--	29,521
Total environmental sales.....	212,783	<sup>r</sup> 228,202	2,556,412	( <sup>3</sup> )
Total steel, iron related sales.....	330,581	<sup>r</sup> 352,460	2,270,192	( <sup>3</sup> )
Total chemical and industrial sales <sup>4</sup> .....	572,479	<sup>r</sup> 578,769	7,105,025	11,956,896
Total sales of lime (short tons).....	1,261,569	<sup>r</sup> 1,317,837	13,309,743	13,173,117
Total sales of lime (metric tons).....	1,144,476	<sup>r</sup> 1,195,522	12,074,399	11,950,454

<sup>r</sup>Revised.

<sup>1</sup>May include revisions for prior months.

<sup>2</sup>Beginning in January 1993, included in "Other Chemical and Industrial" category.

<sup>3</sup>In 1992, included in "Other Chemical and Industrial" category.

<sup>4</sup>Beginning in January 1993, "Other Chemical and Industrial" category is not comparable with 1992. Prior to 1993 the category included sales now shown separately under "Environmental" and "Steel, iron related" categories.



**TABLE 2**  
**CAPTIVE LIME USED BY PRODUCERS IN THE UNITED STATES, BY TYPE**

(Short tons unless otherwise noted)

Use	October 1993	September 1993	10 Months 1993 <sup>1</sup>	10 Months 1992 <sup>1</sup>
Quicklime <sup>2</sup> .....	186,566	131,971	1,359,086	1,433,910
Hydrate.....	20,779	5,012	83,909	69,950
Refractory dolomite.....	14,784	11,393	138,608	132,138
Total (short tons).....	222,129	148,376	1,581,603	1,635,998
Total (metric tons).....	201,512	134,604	1,434,807	1,484,153

<sup>1</sup>May include revisions for prior months.

<sup>2</sup>Excludes refractory dolomite.

**TABLE 3**  
**LIME IMPORTED FOR CONSUMPTION IN SEPTEMBER 1993<sup>1</sup>**

(Short tons unless otherwise noted)

Country of origin	Quicklime	Hydrate <sup>2</sup>	Total (short tons)	Total (metric tons)
Canada.....	13,755	5,686	19,441	17,637
Mexico.....	88	906	994	902
Total (short tons).....	13,843	6,592	20,435	XX
Total (metric tons).....	12,558	5,980	XX	18,538

XX Not applicable.

<sup>1</sup>Trade statistics are reported for the month previous to that of domestic statistics because of a Department of Commerce effort to improve accuracy by providing an additional 14 days handling.

<sup>2</sup>Includes imports classified as hydraulic lime, but believed to be hydrate.

**TABLE 4**  
**LIME SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE<sup>1</sup>**

(Short tons unless otherwise noted)

State or territory	October 1993	September 1993	10 Months 1993 <sup>2</sup>	10 Months 1992 <sup>2</sup>
Alabama.....	154,267	153,608	1,479,180	1,381,127
California.....	23,532	20,298	180,074	229,456
Idaho, Oregon, and Washington.....	68,495	38,818	476,104	385,689
Illinois, Indiana, and Iowa.....	143,923	170,309	1,446,584	1,340,691
Kentucky, Tennessee, and West Virginia...	158,678	157,411	1,695,028	1,641,546
Michigan.....	72,892	48,671	530,310	514,406
Missouri.....	64,802	<sup>r</sup> 64,606	1,157,211	1,683,141
Ohio.....	156,747	<sup>r</sup> 149,602	1,566,841	1,506,580
Pennsylvania.....	138,986	<sup>r</sup> 127,121	1,399,205	1,424,919
Puerto Rico.....	1,927	2,070	25,449	26,309
Texas.....	117,284	140,042	1,305,686	1,268,045
Virginia.....	71,485	74,743	678,105	687,627
Wisconsin.....	46,000	44,488	469,846	421,508
Other <sup>3</sup> .....	264,680	274,426	2,481,723	2,298,071
Total (short tons).....	1,483,698	<sup>r</sup> 1,466,213	14,891,346	14,809,115
Total (metric tons).....	1,345,989	<sup>r</sup> 1,330,126	13,509,206	13,434,607

<sup>r</sup>Revised.

<sup>1</sup>Includes Puerto Rico.

<sup>2</sup>May include revisions for prior months.

<sup>3</sup>Includes Arizona, Arkansas, Colorado, Louisiana, Massachusetts, Minnesota, Montana, Nebraska, Nevada, North Dakota, Oklahoma, South Dakota, Utah, and Wyoming.



**TABLE 5**  
**LIME IN THE UNITED STATES<sup>1 2</sup>**

(Thousand short tons)

Period	Consumption <sup>3</sup>	Sold or used	Imports <sup>4</sup>	Exports <sup>4</sup>	Average price(\$/ton) <sup>5</sup>
1983	15,157	14,902	283	28	46.44
1984	16,178	15,956	247	25	45.92
1985	15,893	15,713	200	20	45.88
1986	14,683	14,498	201	16	47.91
1987	15,923	15,758	178	13	47.47
1988	17,271	17,076	210	15	45.47
1989	17,364	17,178	218	32	47.01
1990	17,571	17,452	173	54	49.13
1991	17,392	17,270	174	52	48.27
1992	18,005	17,857	213	65	50.23
1991:					
October	1,526	1,517	14	5	XX
November	1,473	1,464	14	5	XX
December	1,520	1,509	15	4	XX
1992:					
January	1,473	1,461	16	4	XX
February	1,414	1,403	14	3	XX
March	1,471	1,462	14	5	XX
April	1,484	1,474	15	5	XX
May	1,473	1,463	16	6	XX
June	1,537	1,526	16	5	XX
July	1,529	1,516	21	8	XX
August	1,473	1,455	23	5	XX
September	1,472	1,456	23	7	XX
October	1,533	1,540	19	6	XX
November	1,480	1,470	16	6	XX
December	1,578	1,564	19	5	XX
1993:					
January	1,544	1,529	18	4	XX
February	1,485	1,474	17	6	XX
March	1,562	1,551	18	7	XX
April	1,521	1,511	16	6	XX
May	1,502	1,487	21	6	XX
June	1,469	1,453	23	7	XX
July	1,469	1,456	20	7	XX
August	<sup>r</sup> 1,496	<sup>r</sup> 1,481	22	7	XX
September	1,479	<sup>r</sup> 1,466	20	7	XX
October	NA	1,484	NA	NA	XX

<sup>r</sup>Revised. NA Not available. XX Not applicable.

<sup>1</sup>Monthly data may not add to any preliminary annual total shown because of independent rounding, and may not add to any final total shown because of an independent annual survey.

<sup>2</sup>Inventories may be estimated as 60% of monthly consumption.

<sup>3</sup>Consumption includes sold or used plus imports minus exports, and includes Puerto Rico.

<sup>4</sup>Import and export data are from the Bureau of the Census.

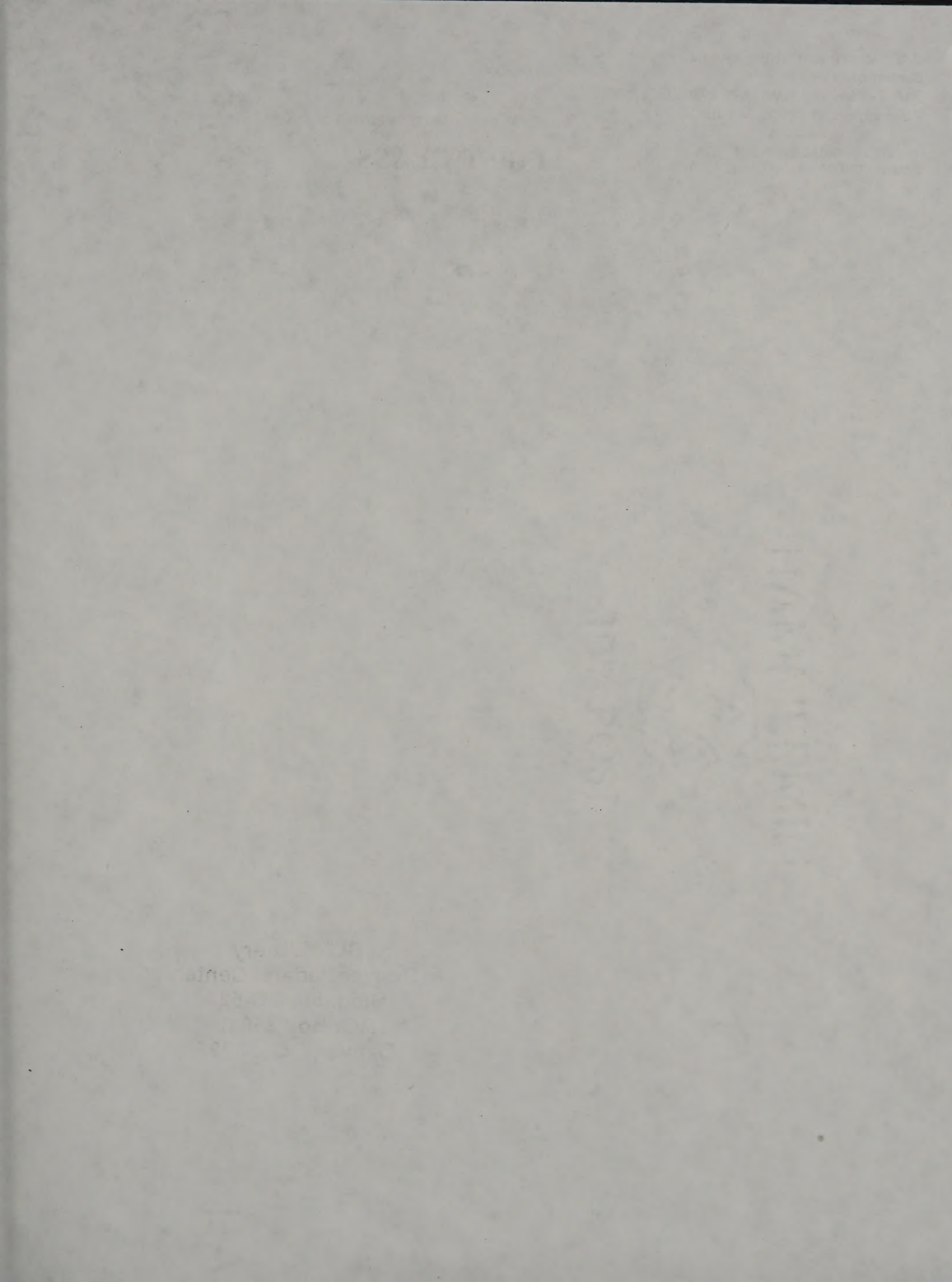
<sup>5</sup>Average value is from the annual survey of lime producers. It is an f.o.b. value as reported by the companies for chemical quicklime sold.

TABLE 2  
LIME IN THE UNITED STATES<sup>1</sup>  
(Thousand short tons)

Product	Consumption <sup>2</sup>	Sold or used	Imports <sup>3</sup>	Exports <sup>4</sup>	Average price (cents per ton) <sup>5</sup>
1922	18,121	17,305	797	28	46.44
1923	18,175	17,358	797	28	46.35
1924	18,385	17,712	653	30	46.88
1925	18,552	17,882	653	16	47.91
1926	18,523	17,738	775	16	47.47
1927	17,571	17,178	393	16	46.47
1928	17,304	17,178	126	32	47.01
1929	17,371	17,452	81	64	46.75
1930	17,305	17,305	0	51	46.17
1931	17,305	17,305	0	64	46.33
1932	17,305	17,305	0	64	46.33
1933	17,305	17,305	0	64	46.33
1934	17,305	17,305	0	64	46.33
1935	17,305	17,305	0	64	46.33
1936	17,305	17,305	0	64	46.33
1937	17,305	17,305	0	64	46.33
1938	17,305	17,305	0	64	46.33
1939	17,305	17,305	0	64	46.33
1940	17,305	17,305	0	64	46.33
1941	17,305	17,305	0	64	46.33
1942	17,305	17,305	0	64	46.33
1943	17,305	17,305	0	64	46.33
1944	17,305	17,305	0	64	46.33
1945	17,305	17,305	0	64	46.33
1946	17,305	17,305	0	64	46.33
1947	17,305	17,305	0	64	46.33
1948	17,305	17,305	0	64	46.33
1949	17,305	17,305	0	64	46.33
1950	17,305	17,305	0	64	46.33
1951	17,305	17,305	0	64	46.33
1952	17,305	17,305	0	64	46.33
1953	17,305	17,305	0	64	46.33
1954	17,305	17,305	0	64	46.33
1955	17,305	17,305	0	64	46.33
1956	17,305	17,305	0	64	46.33
1957	17,305	17,305	0	64	46.33
1958	17,305	17,305	0	64	46.33
1959	17,305	17,305	0	64	46.33
1960	17,305	17,305	0	64	46.33
1961	17,305	17,305	0	64	46.33
1962	17,305	17,305	0	64	46.33
1963	17,305	17,305	0	64	46.33
1964	17,305	17,305	0	64	46.33
1965	17,305	17,305	0	64	46.33
1966	17,305	17,305	0	64	46.33
1967	17,305	17,305	0	64	46.33
1968	17,305	17,305	0	64	46.33
1969	17,305	17,305	0	64	46.33
1970	17,305	17,305	0	64	46.33
1971	17,305	17,305	0	64	46.33
1972	17,305	17,305	0	64	46.33
1973	17,305	17,305	0	64	46.33
1974	17,305	17,305	0	64	46.33
1975	17,305	17,305	0	64	46.33
1976	17,305	17,305	0	64	46.33
1977	17,305	17,305	0	64	46.33
1978	17,305	17,305	0	64	46.33
1979	17,305	17,305	0	64	46.33
1980	17,305	17,305	0	64	46.33
1981	17,305	17,305	0	64	46.33
1982	17,305	17,305	0	64	46.33
1983	17,305	17,305	0	64	46.33
1984	17,305	17,305	0	64	46.33
1985	17,305	17,305	0	64	46.33
1986	17,305	17,305	0	64	46.33
1987	17,305	17,305	0	64	46.33
1988	17,305	17,305	0	64	46.33
1989	17,305	17,305	0	64	46.33
1990	17,305	17,305	0	64	46.33
1991	17,305	17,305	0	64	46.33
1992	17,305	17,305	0	64	46.33
1993	17,305	17,305	0	64	46.33
1994	17,305	17,305	0	64	46.33
1995	17,305	17,305	0	64	46.33
1996	17,305	17,305	0	64	46.33
1997	17,305	17,305	0	64	46.33
1998	17,305	17,305	0	64	46.33
1999	17,305	17,305	0	64	46.33
2000	17,305	17,305	0	64	46.33

<sup>1</sup> Based on the 1922-1923 average. <sup>2</sup> Includes consumption in the United States and abroad. <sup>3</sup> Includes consumption in the United States and abroad. <sup>4</sup> Includes consumption in the United States and abroad. <sup>5</sup> Includes consumption in the United States and abroad.





U.S. Department of the Interior  
Bureau of Mines  
810 7th Street, N.W., MS #9800  
Washington, D.C. 20241-0001

---

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

AN EQUAL OPPORTUNITY EMPLOYER

**FIRST CLASS**

**BLM Library  
Denver Federal Center  
Bldg. 50, OC-521  
P.O. Box 25047  
Denver, CO 80225**